[ANARTS - Australian National Amateur Radio Teletype Society]
ANARTS News Bulletin 936 25 November 1996
This is the Australian National Amateur Radio Society with
our weekly RTTY broadcast. We transmit on the following
frequencies and times :

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  3.545 MHz (Plus/minus 5)   0930 UTC     VK2CTD (COL)
  7.045 MHz  -3              0030 UTC     VK2CTD (COL)
 14.070 MHz (amtor/fec)      0030 UTC     VK2DPM (ALAN)
 14.091 MHz                  0030 UTC     VK2DPM (ALAN)
146.675 MHz             0030/0930 UTC     VK2JPA (PAT)
144.850 MHz (ax25 bbs)                    VK2JPA AT VK2WI
146.675 MHz (rtty mmbbs/repeater)         VK2RTY

        INTERNET         RADIO-INFO-DIST AT UCSD.EDU
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Views expressed in this news bulletin are not necessarily
those of the Broadcast Officer, the Relay Officers, or of the
Society.

A.N.A.R.T.S. News Bulletin 936 25 November 1996

COLS COLUMN

ONE OF THE EXPERIMENTERS OF THE TIME AND ONE WHO THOUGHT FURTHER EXPERIMENTS WITH THE TELEGRAPH A WASTE OF TIME WAS PETER BARLOW, A MATHMATICS TEACHER AT THE BRITISH ROYAL MILITARY ACADEMY WOOLWICH. HE WROTE A PAPER ON HIS WORK AND IN IT HE ASKS AND ANSWERS A QUESTION. 'IN A VERY EARLY STAGE OF ELECTROMAGNETIC EXPERIMENTS IT HAD BEEN SUGGESTED THAT AN INSTANTANEOUS TELEGRAPH MIGHT BE ESTABLISHED BY MEANS OF CONDUCTING WIRES AND COMPASSES. THERE IS ONLY ONE QUESTION WHICH WOULD RENDER THE RESULT DOUBTFUL. IS THERE ANY DIMINUTION OF EFFECT BY LENGTHENING THE WIRE?. I FOUND A DIMUNITION WITH ONLY 200 FEET OF WIRE, WHICH CONVINCED ME OF THE IMPRACTICABILITY OF THE SCHEME'.

THE SENSITIVITY OF THE MEASURING DEVICES AVAILABLE TO BARLOW WERE NOT SUFFICIENT TO MEASURE THE 'INTERNAL RESISTANCE' OF HIS BATTERY. AND FURTHER HE DID NOT KNOW ABOUT 'OHMS LAW' TO CALCULATE BETWEEN CURRENT, VOLTAGE AND RESISTANCE. HAD HE HAD THE BENEFIT OF SUCH EQUIPMENT AND KNOWLEDGE MAYBE HIS RESULTS WOULD HAVE BEEN DIFFERENT.

IN SPITE OF BARLOWS NEGATIVE RESULTS, HIS PAPER BECAME WELL KNOWN IN AMERICA AS WELL AS ENGLAND AND EUROPE. JOSEPH HENRY REFERRED TO MR BARLOW'S PROJECT. HENRY WAS NOT DISCOURAGED HOWEVER AND CONSTRUCTED A TELEGRAPH OF HIS OWN. IN ENGLAND, BARLOW'S REPUTATION WAS HIGH ENOUGH TO MAKE EVERYONE THINK THAT ANY FURTHER WORK ON THE TELEGRAPH WAS A WASTE OF TIME. HAD BARLOW SUCCEEDED IN ESTABLISHING THE RELATIONSHIP BETWEEN THE PROPERTIES OF BATTERIES, CONDUCTORS AND CURRENT, HE MIGHT HAVE HAD A PROFOUND INFLUENCE UPON THE PROGRESS OF THE TELEGRAPH, BECAUSE THE WORK OF OHM WAS NOT YET KNOWN IN ENGLAND AND AMERICA. THE LACK OF 'OHM'S LAW' ALMOST REDUCED COOKE TO DESPAIR, BUT THAT IS ANOTHER STORY FOR A LATER ARTICLE.

FOR THE NEXT FEW YEARS THERE WERE NO APPRECIABLE CONTRIBUTIONS TO THE TELEGRAPH. THERE WERE HOWEVER, SEVERAL INDIRECT ADVANCES THAT HAD AN EFFECT. THESE ARE : 1. THE DISCOVERY IN 1825 OF THE ELECTROMAGNET BY WILLIAM STURGEON, 2. THE

DEVELOPMENT OF STURGEONS WORK BY HENRY IN AMERICA. AND 3. THE
OVERWHELMINGLY IMPORTANT INVESTIGATIONS OF MICHAEL FARADAY ON
ELECTROMAGNETIC INDUCTION.

FOR NOW 73S DE COL VK2CTD.

IPS WEEKLY SOLAR AND GEOPHYSICAL REPORT
(15 NOVEMBER - 21 NOVEMBER)

ISSUED ON 22 NOVEMBER 1996

SUMMARY

Date	15	16	17	18	19	20	21
10cm	74	74	72	74	74	75	74
A	13	5	12	14	11	7 (	6 estimated)
T	2	-4	-5	-4	-27	-14	-10

SOLAR ACTIVITY WAS VERY LOW ALL WEEK.

THE GEOMAGNETIC FIELD AT LEARMONTH W.A. WAS QUIET 21ST
NOVEMBER; QUIET TO UNSETTLED 17TH, 19TH AND 20TH; UNSETTLED
16TH; AND UNSETTLED TO ACTIVE 15TH, AND 18TH.

MAXIMUM USABLE FREQUENCIES AT SYDNEY WERE ENHANCED TO 15 PER
CENT AT TIMES ON 15TH AND 16TH; DEPRESSED TO 30 PER CENT AT
TIMES 18TH TO 20TH; AND NEAR PREDICTED MONTHLY VALUES AT OTHER
TIMES. pREAD F WAS PRESENT ON 18TH, AND sPRADIC e WAS NOTED ON
18TH AND 19TH.

FORECAST

(22 NOVEMBER - 28 NOVEMBER)

SOLAR: VERY LOW

GEOMAGNETIC: QUIET TO UNSETTLED

FREQUENCIES: NEAR PREDICTED MONTHLY VALUES. NIGHT TIME SPREAD
F AND BLANKETING SPORADIC E EXPECTED.

COURTESY OF IPS RADIO AND SPACE SERVICES

Here is an extra item of news for the Packet version of our cast.
It is of interest to all DX-ER's. It was included in the RSGB news
in the UK last week.

A new five-band HF beacon is now on the air. VE8AT in Northern Canada
transmits for 10 seconds every three minutes on 14.1, 18.11, 21.15,
24.93 and 28.2 MHz in turn. The power levels is stepped from 100 watts
to 100 milliwatts, and the beacon uses a multiband vertical antenna.
VE8AT was heard in the UK last week on 14.1MHz down to the 10 watt level
at around 1730 UTC. Twelve of the network's 18 beacons are now on the
air and the next, ZL6B in New Zealand, should come on next month.

RTDX1115 RTTY DX
VK2SG RTTY DX-NOTES WEEKENDING 15 NOV. 1996 (BID RTDX1115)

Our information this week came from DJ3IW and the Central Europe DX Cluster DB0SPC, I5FLN, OH2BUA, W5KSI, WB2CJL, and the NJ0M Node of the Minnesota DX Packet Cluster Network.

Friday 8
0814-14085 BD4DH
1125-14084 CT3FE
1155-14084 ER3KS
1336-14089 4X6UO
1402-14086 YB5NOF/8
1409-14082 S52LW
1436-14086 OY4TN
1657-14085 3B8CF
1654-14087 EI6FR
2026-14085 9Q5PA
2238-14086 JH1HRJ
2243-14080 JA3DLE/1

Saturday 9
0025-14085 ZW2A
0039-7031 Z30M
0050-7039 S50A
0053-7034 S57NW
0059-7040 T9/OI6XY
0106-7044 EA6PZ
0111-7031 UN5PR
0113-7035 YW1A
0158-7036 8R1AL
0512-7037 4L1BR
0538-7040 CO93ZD
0556-14087 ZL2JON
0707-14090 OH2AG
0733-14092 Z30M
0819-21081 UA0JQ
0916-21090 YB1AQS
1033-21094 UK7F
1058-21087 VK6GOM
1106-14090 VK4BVT
1108-14088 VK2KM
1220-21087 ZW2A
1304-14085 ZD8DEZ
1330-14084 RU1A
1353-14075 UT0I
1358-14088 YL8N
1400-14090 S57U
1409-14084 YB5QZ
1442-21093 XR8S
1518-7030 3B8CF
1533-21079 TY1PS
1537-21088 J38GU
1539-21230 EA3FNA SSTV
1628-14086 RU1A
1657-7035 OY4TN
1814-7032 TA3B
1814-7041 SV1CER
1911-7039 VK2KM
1928-7042 EA9JZ
2148-7037 VK6GOM

Sunday 10
0001-14092 JA3EXW
0017-7037 EA3NY
0042-7077 J38GU

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0052-3599  T9/OI6XY
0424-7038  YW1A
0607-7040  ZL2JON
0749-21081 UA0JQ
0828-21081 C91A
0829-21086 VK6GOM
0847-21098 UK7F
0949-21081 YB1AQS
1202-21091 EA9JZ
1524-14086 YB5QZ
1615-21082 CT3BX
1801-14075 YW1A

2047-7041  EA9JZ
2220-7034  YW1A

Monday 11
1306-14085 VK4GKM
1404-18107 ON6TS Pactor
1409-14085 ES7FQ
1552-14232 VO1BL SSTV

Tuesday 12
0701-14233 FK8GM SSTV
0811-14234 A71BR SSTV
1243-21085 VP8WA
1340-14084 FK8GM
1827-14086 EA8AW

Wednesday 13
0819-14089 FK8GM
1320-14081 ER3KS
1346-14087 T9/WA5IKQ
1813-14083 KH6F
2038-14089 J87GU QSL DL7VOG
2132-14088 J78GU
2342-14086 PP7FB

Thursday 14
1306-14083 UY5QN
1359-14085 OX3IPA
1635-14087 OK2DB
1729-14084 V21JB

Notes of Interest:

REMINDER! Myanmar - XZ1N is scheduled to be up 16-25 November.
Lots of RTTY promised. Check you favorite propagation program
for your best chance.

The VK2SG RTTY DX Notes are also available on the Internet  at
reflector  digital-dx(AT)st.rim.or.jp  .  and the OH2BUA
Webcluster at  URL http://www.clinet.fi~jukka/webcluster.html

Send your bandpass and notes of interest for next week's
bulletin to Luciano, I5FLN  AT ZAF.AF

73 es good hunting
de Jules W2JGR AT W5KSI.(HASHSIGN)NOLA.LA.NA

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Ohio/Penn DX Bulletin No. 279
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Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, AD1C, WA1YTW, KA2CYN, W4ZV, N5AW, W5ZPA, KH6BZF, K7WX, NL7TB, K8YSE, WA0RJY, DF4RD, DL2HBX, DL3KUD, G4BUE & DX News Sheet, JA1IDY, JF1SQC, LU6EF, OH7KD, VR2GO and ZS5S for the following DX information.

5X, UGANDA (UPDATE). 5X4DLI (Dave, KE4EW) and 5X4DEL (Dale, N3BNA) are now active from northwest Uganda, from the station of 5X4F (Paul). QSL 5X4DLI via KE4EW, 5X4DEL via WB3DNA and 5X4F via K3SW. They will join in a Multi/Single entry (using battery power) in the CQWW-CW Contest as 5X4F. Look for them 37 kHz from the bottom of the bands when possible.

C21, NAURA. JUST A REMINDER. Begin looking for the C21BH team to be active November 20-27th (activity also during the CQWW CW Contest) to celebrate Martti Laine's 50th birthday. Suggested frequencies: RTTY - 10130, 14082, 18100 and 21082 kHz.

HC, EDUADOR. Look for Bernd, DL1VJ, to be active in the upcoming CQWW CW Contest as HC1OT. Activity will be on all bands.

HC8, GALAPAGOS ISLANDS. Trey, N5KO (ex-WN4KKN), will be active as HC8N on all bands in the CQWW CW, and will be active as N5KO/HC8 before and after the contest. QSL via AA5BT.

HS, THAILAND. Jack, WA0RJY; Sam, HS0/SM3DYU; LA7JO along with several others will be mounting a Multi/Single effort with the callsign HS0AC during the CQWW CW Contest weekend. They have received special permission to operate on 80 and 160 meters, and they will be working on receiving antennas for those bands during the week prior to the contest.

JW, SVALBARD. The 'DX News Sheet' reports that Mathias, JW5NM, is very active on 160 meters (1820-1825 kHz).

OI, FINLAND. The SRAL has authorized OH7AAC to use callsign OI7T during both 1996 CQWW SSB/CW Contest. So look for OH7AAC to use the callsign OI7T in the upcoming CW contest as a Multi/Single entry. QSL via OH7AAC.

V3, BELIZE. The following group will be active from Ambergris Caye, Belize, from December 11-16th: Mike, W5ZPA (V31MP); Stan, W5JYK (V31YK) and Wondy, K5KR (call pending). Activity will be on CW, SSB, and RTTY. QSL to each home call with SASE.

V85, BRUNEI. Hajime, JO1RUR, will operate as V85HG in the upcoming CQWW CW Contest as a Single Op/All Band entry. QSL via BURO to JH7FQK.

ARLD051 DX news

This week's bulletin was made possible with info provided by Tedd, KB8NW, the OPDX Bulletin, The 599DX Report, DX News Sheet, Tom, N6RA, and Contest Corral from QST. Thanks to all.

MAURITIUS, 3B8. Jacques, F6HMJ, will be active as 3B8/F6HMJ from the QTH of 3B8CF from November 20 through December 5. He

will stay on Reunion Island until the middle of December.

CYPRUS, 5B. Ted, 5B4OG, is active on 160 and 40 meters before his sunrise.

UGANDA, 5X. Joe, G3MRC, is active as 5X1P. He has been heard on 21024 kHz operating split between 1315 and 1400z.

BAHAMAS, C6. N6RA will be QRV as C6AHF from December 3 through 19. Look for him to be active during the ARRL 10 and 160 meter contests. QSL via N6RA.

SCOTLAND, GM. Tom, GM4FDM will be a 40 meter single band entry in the CQ WW CW Contest as GM6X. QSL via home call.

DODECANESE, SV5. Al, K7AR, will be active as SV5/K7AR from November 21 through 26, including participation in the CQ WW CW Contest. QSL via AA6BB.

CAYMAN ISLANDS, ZF. ZF2RF will be active during the CQ WW CW Contest as a Multi/Single entry on all bands. Operators include K4UVT as ZF2RF, K9LA as ZF2AY, K9MK as ZF2MK, N5HRG as ZF2HR and N9NS. Individual operators will be active outside the contest on both CW and SSB from November 21 through 29. QSL ZF2RF via K4UVT at PO Box 231240, Montgomery, AL, 36123 1240 with SASE or via bureau. QSL individual operators via home calls.

COMING EVENTS

DECEMBER	15TH	LAST ANARTS BROADCAST FOR 1996
JANUARY	26TH	ANARTS BROADCAST RESUMES

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD at VK2WI, or the Secretary (Pat) VK2JPA at VK2WI.

Email address for the Broadcast Officer is :

patl(at)pitt.conmusic.su.oz.au
or patl(at)extro.ucc.su.oz.au

73s de Pat VK2JPA Broadcast Officer
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Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2KFU.NSW.AUS.OC | PGP 2.6
Opinions expressed are mine. | D8 15 71 F9 26 C8 63 40 5E 63 5C 65 FC A0 22 99